No. 8100168

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure-Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH; AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TALL FESCUE

'Olympic'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 17th *day of* June *in the year of our Lord one thousand nine hundred and* eighty-two.

Attest:

Kenneth A. Evans
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R Block
Secretary of Agriculture

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee ($250 filing fee and $250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

FORM APPROVED
OMB NO. 40-R3822

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
AG-125A	Olympic	PV NUMBER 8100168
2. KIND NAME	3. GENUS AND SPECIES NAME	FILING DATE 9/9/81 / TIME 1:00 A.M. P.M.
Tall Fescue	Festuca arundinacea	FEE RECEIVED $ 500.00 $ 250.00 / DATE 9/9/81 3/12/82
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETERMINATION	
Gramineae	August, 1979	

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Pure-Seed Testing, Inc.	P. O. Box 449, 73 West G Street Hubbard, OR 97032	503-981-7333

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
Corporation	Oregon	6/3/74

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:

Dr. William A. Meyer, Pure-Seed Testing, Inc.

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement.
- [X] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [X] 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [ ] YES [X] NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
[X] YES [ ] NO	[X] FOUNDATION [ ] REGISTERED [X] CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? [X] YES [ ] NO *(If "Yes," give name of countries and dates.)*

The Netherlands, November, 1980.
France, November, 1980.

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? [ ] YES [X] NO *(If "Yes," give name of countries and dates.)*

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? [X] YES [ ] NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

9-3-81
(DATE)

William A. Meyer
(SIGNATURE OF APPLICANT)

1

(DATE)

(SIGNATURE OF APPLICANT)

FORM GR-470 (1-78)

EXHIBIT A.

ORIGIN AND BREEDING HISTORY
OF OLYMPIC TALL FESUCE

1. Olympic tall fesuce is an advanced generation synthetic cultivar derived from the progenies of eight clones. Plants collected from old turf stands in Alabama, North Carolina and New Jersey contributed to the parental germplasm of Olympic. Parental clones were selected from space plant nurseries based on disease resistance, resistance to drought stress, dark color, softness of leaf, and seed yield. Single plant progenies of these clones were evaluated in closely mowed turf trials in New Jersey and Oregon. Seedlings from selected clones exhibiting the best progeny performance were subsequently screened for resistance to crown rust (Puccinia coronata Corda. F. Sp. festucae Erikss.), uniform maturity and improved seed yield.

2. Breeder seed of Olympic was produced in an isolated, space plant nursery of 1004 selected crown rust resistant seedlings of the eight parental clones. The seed production of Olympic is limited to two generations of increase from breeder seed. The two are foundation and certified.

3. No varients have been observed in the reproduction and multiplication of Olympic tall fescue.

4. Breeder's, foundation and certified seed and the progenies of the eight parental clones of Olympic have produced turf of good quality, uniformity and stability.

EXHIBIT B.

NOVELTY STATEMENT OF OLYMPIC TALL FESCUE

Olympic tall fescue is a leafy, moderately low growing turf-type cultivar. It has a darker green color (Royal Horticulture Chart 136B) than Rebel (137D) and Falcon (137B) (Table 4). It produces a dense, more persistent turf than the varieties Kentucky 31, Kenhy, Alta and has performed well in turf trials in Oregon, New Jersey, Maryland, and California (Tables 7,8).

In turf trials Olympic has shown similar density and leafiness as the varieties Rebel and Falcon, but it has shown better resistance to Helminthosporium dictyoides leafspot than these varieties and Kenhy, Alta and Fawn (Tables 5,6,7,8). Olympic has shown moderate resistance to brown patch (Rhizoctonia solani).

In two separate yield trials near Hubbard, Oregon Olympic has shown good resistance to crown rust (P. coronata) as has Falcon, while Rebel was found to be moderately susceptible (Table 3). Olympic has a medium maturity showing a heading date three days later than Falcon and four days earlier than Rebel (Table 2).

Olympic most closely resembles the varieties Falcon and Rebel. However, close comparisions show that Olympic differs from these two varieties in the following characteristics:

1. Olympic has a darker, more blue color (RHS 136B) than Rebel (RHS 137D) and Falcon (RHS 137B) (Table 4).

2. Olympic is three days later maturing that Falcon and four days earlier than Rebel (Table 2).


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3. Olympic has better resistance to Helminthosporium dictyoides than Falcon and Rebel (Tables 6,8).

4. Olympic has better resistance to crown rust (P. coronata) than Rebel (Table 3).

TABLE 2.

FIFTY PERCENT HEADING DATES OF TALL FESCUES
IN YIELD TRIALS NEAR HUBBARD, OREGON

CULTIVAR OR SELECTION	1979 August Planting		1980 August Planting
	1980 Dates	1981 Dates	1981 Dates
Olympic	5/10	5/12	5/14
Falcon	5/7	5/9	5/11
Rebel	5/14	5/16	5/18
Kentucky 31	5/5	5/6	5/6
Alta	4/30	4/28	4/28


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TABLE 3.

CROWN RUST RATINGS OF TALL FESCUES
PLANTED IN YIELD TRIALS IN 1979 AND 1980.
NEAR HUBBARD, OREGON
9=best resistance

CULTIVAR OR SELECTION	1979 test 6/23/81	1980 test 6/23/81
Olympic	9.0	9.0
Falcon	9.0	9.0
Fawn	5.5	-
Alta	6.0	6.0
Rebel	5.5	6.0
Kentucky 31	8.0	8.0

TABLE 4.

TURF TRIALS OF TALL FESCUE
SEEDED NEAR HUBBARD, OR, BELTSVILLE, MD AND TEMECULA, CA.
MAINTIANED AT 1¼" CUTTING HEIGHT AND MODERATE FERTILITY.

Royal Horticultural Society Color Chart Ratings

CULTIVAR OR SELECTION	Hubbard, OR Fall 1979 test August, 1981	Hubbard, OR Fall 1980 test August, 1981	Beltsville, MD Fall 1980 test Augsut, 1981	Temecula, CA Fall 1979 test June, 1981
Olympic	136B	136B	136B	136B
Falcon	137B	137B	137B	137B
Rebel	137D	137D	137D	137D
Kentucky 31	143A	143A	141C	143A

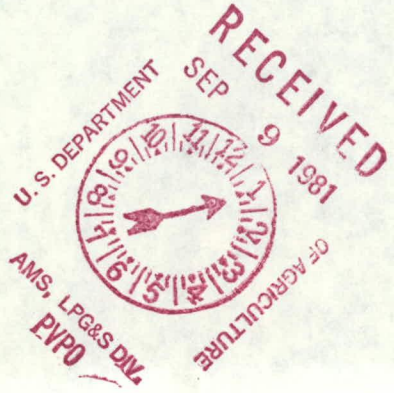
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Table 5. Reaction of tall fescue varieties and selections to the Helminthosporium blight (netblotch) disease in turf trials at Adelphia, New Jersey during November 1979.*

Variety or selection	Disease** rating 9 = most damage
1. AG-125 A (Olympic)	2.9
2. Falcon	3.6
3. AG-125	3.6
4. Rebel	4.8
5. Kenhy	4.9
6. K5-27	5.1
7. Kenmont	5.4
8. LFA SYN I	5.7
9. Kenwell	5.8
10. Belt. Syn 16-1	6.3
11. Kentucky 31	6.4
12. Belt. TF 11	6.5
13. Ky Blend	6.8
14. Belt. TF 25	6.9
15. Belt. KPH-1	7.3
16. Goar	8.3
L.S.D. (0.05)	0.9

*Plots seeded September 1979 and mowed at 1½-inches.

**Disease incited by Helminthosporium dictyoides.


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TABLE 6.

TALL FESCUE TURF TRIAL
SEEDED SEPT. 5, 1980 NEAR HUBBARD, OREGON
MAINTAINED AT 1¼" AND MODERATE FERTILITY
LEAF SPOT CAUSED BY HELMINTHOSPORIUM DICTYOIDES

VARIETY	Leaf Spot Rating 9-1 (9=best)
Olympic	8.0
Falcon	6.3
Rebel	6.0
KS-27	5.7
TF-791	5.3
Clemfine	4.7
Kentucky 31	3.7
Kenhy	3.3
Fawn	3.0
Alta	2.7
LSD at 0.05	0.89


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TABLE 8.

PERFORMANCE OF TALL FESCUE CULTIVARS AND SELECTIONS IN TURF TRIALS
SEEDED SEPT., 1979 AT ADELPHIA, NEW JERSEY

Turf Performance Score 9=best

CULTIVAR OR SELECTION	1979 1980 Ave.	Nov. 1979	Dec. 1979	Apr. 1980	May 1980	June 1980	July 1980	Aug. 1980	Sept. 1980	Oct. 1980	Nov. 1980	Leaf* Spot Nov. 1979	Brown** Patch Sept. 1980
Olympic	6.7	6.7	6.8	7.1	7.2	7.4	6.7	6.3	6.3	6.3	6.3	2.9	2.1
Rebel	6.6	5.5	5.6	6.9	7.3	7.3	6.8	6.7	6.5	7.0	7.0	4.7	1.4
Falcon	6.2	5.9	6.1	6.8	6.5	6.6	6.3	6.1	5.5	6.3	6.1	3.5	1.9
Houndog	5.6	5.6	6.0	5.9	5.9	6.0	5.3	4.9	4.7	5.9	5.6	3.9	2.5
K5-27	5.5	4.9	5.4	5.2	6.3	6.2	6.1	5.2	5.4	5.1	5.1	5.1	3.5
Kentucky 31	5.2	4.1	4.8	5.0	5.8	6.0	6.0	4.9	4.7	5.4	5.5	6.4	3.0
Clemfine	5.2	4.4	4.7	4.4	5.1	5.5	5.4	4.6	5.3	5.9	6.0	5.7	2.3
Kenmont	4.8	4.4	4.5	4.5	4.8	5.0	5.3	4.5	4.3	5.0	5.0	5.4	4.1
Kenhy	4.5	4.8	5.8	4.0	4.3	4.3	4.3	4.1	4.0	4.8	5.0	5.1	3.4
Goar	2.2	2.1	2.0	1.8	1.9	2.0	2.8	2.5	2.4	2.8	3.0	8.3	3.4
LSD at 0.05	0.5	0.7	0.9	0.8	0.8	0.9	1.3	0.9	0.8	0.8	0.7	1.0	1.3

*Leaf spot - 9=most disease (incited by Helminthosporium dictyoides F. sp. dictyoides).

**Rhizoctonia brown patch - 9=most disease (incited by Rhizoctonia solani).

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8. LEAF BLADE:

[ ] ANTHOCYANIN: 0 = ABSENT 1 = PRESENT [ ] HAIRS (BASAL): 0 = ABSENT 1 = PRESENT [2] MARGINS: 1 = SMOOTH 2 = SEMI-ROUGH 3 = ROUGH

[1 9 3] mm LENGTH (FIRST LEAF BELOW FLAG LEAF) [ ] mm WIDTH See Table 1

[5 6] mm SHORTER THAN . . . . [1 4] COMPARISON VARIETY

LENGTH SAME AS . . . . . [ ] COMPARISON VARIETY

[ ] mm LONGER THAN . . . . [ ]

[ ] mm NARROWER THAN [ ] COMPARISON VARIETY

WIDTH SAME AS . . [ ] COMPARISON VARIETY

[ ] mm WIDER THAN . . [ ]

9. LEAF SHEATH (Plant Base):

[ ] COLOR: 1 = WHITE (HIGHLIGHT) 2 = RED [1] AURICLE HAIRINESS: 0 = ABSENT 1 = PRESENT

10. PANICLE (Mature plant)

5½" row See Table 1

[2 3] NUMBER OF PANICLES PER PLANT (FIRST YEAR OF PRODUCTION - FALL OR SPRING PLANTING SPECIFY fall

[2 5 4] mm LENGTH [ ] GRAMS OF SEED PER PANICLE

[4 5] mm SHORTER THAN . . . [1 4] COMPARISON VARIETY

LENGTH SAME AS . . . [ ] COMPARISON VARIETY

[ ] mm LONGER THAN . . . [ ]

[ ] GRAMS LESS SEED THAN [ ] COMPARISON VARIETY

WEIGHT SAME AS . . [ ] COMPARISON VARIETY

[ ] GRAMS MORE SEED THAN [ ]

[ ] SHAPE: 1 = NARROW-TAPERING 2 = EGG SHAPE 3 = OBLONG 4 = OTHER (SPECIFY) _____

[1] TYPE: 1 = OPEN 2 = INTERMEDIATE 3 = COMPACT

[2] HABIT: 1 = ERECT 2 = NODDING

[ ] BRANCHES: 1 = SMOOTH 2 = ROUGH

[ ] COLOR (At 50% flowering): 1 = YELLOWISH GREEN 2 = GREEN 3 = BLUISH GREEN 4 = PURPLISH 5 = REDDISH 6 = OTHER (SPECIFY) _____

11. PALEA:

[0] HAIRS (ON KEELS): 0 = ABSENT 1 = SHORT (OLDS) 2 = LONG (RAINIER)

12. LEMMA:

[0] HAIRS: 0 = ABSENT 1 = PRESENT [ ] TEXTURE: 1 = SMOOTH 2 = ROUGH

[ ] mm LEMMA LENGTH [ ] mm LEMMA WIDTH

[ ] mm SHORTER THAN . . . . [ ] COMPARISON VARIETY

LENGTH SAME AS . . . . [ ] COMPARISON VARIETY

[ ] mm LONGER THAN . . . . [ ]

[ ] mm NARROWER THAN [ ] COMPARISON VARIETY

WIDTH SAME AS . . . [ ] COMPARISON VARIETY

[ ] mm WIDER THAN. . . [ ]

[1] AWNS: 0 = ABSENT 1 = PRESENT

[2] mm AWN LENGTH

FORM GR-470-37
(3-76)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY
FESCUE
(Festuca spp.)

NAME OF APPLICANT(S)
Pure-Seed Testing, Inc.

VARIETY NAME OR TEMPORARY DESIGNATION
Olympic tall fescue

ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code)*
P. O. Box 449, 73 West G St.
Hubbard, OR 97032

FOR OFFICIAL USE ONLY
PVPO NUMBER
8100168

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used:_____. Describe location of test area_____.
All questions need not be answered, however, completeness should be striven for in order to establish the most adequate Variety Identification.

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

[1]
1 = F. ARUNDINACEA (TALL) 11 = ALTA 12 = FAWN 13 = GOAR 14 = KENTUCKY 31
2 = F. PRATENSIS (MEADOW) 21 = ENSIGN 22 = TRADER
3 = F. RUBRA SSP. COMMUTATA (CHEWINGS) 31 = CASCADE 32 = HIGHLIGHT 33 = JAMESTOWN
4 = F. RUBRA SSP. RUBRA (RED) 41 = BOREAL 42 = PENNLAWN 43 = DAWSON
5 = F. OVINA VAR. OVINA (SHEEP)
6 = F. LONGIFOLIA (HARD) 61 = DURAR 62 = BILJART (C-26) 63 = SCALDIS
7 = OTHER (SPECIFY) F._____

2. CYTOLOGY

[4][2] 2n CHROMOSOME NUMBER

3. ADAPTATION: (O = Not Tested; 1 = Not Adapted; 2 = Adapted)

[2] Southern part NORTHEAST [2] higher elevations SOUTHEAST [2] Southern part NORTH CENTRAL [2] PACIFIC N.W. [2] OTHER (SPECIFY) California

4. MATURITY: (50% Headed) Give Test Area Near Hubbard, Oregon

[ ][ ] DAYS EARLIER THAN . . . . . [ ][ ]
MATURITY SAME AS . . . . . [ ][ ]
[ ][6] DAYS LATER THAN . . . . . [1][4]
} See Table 2 COMPARISON VARIETY

5. PLANT HEIGHT: (At maturity to top of panicle)

See Table 1

1[4][7][3] mm HEIGHT
1[2][0] mm SHORTER THAN . . . . . [1][4]
HEIGHT SAME AS . . . . . [ ][ ]
[ ][ ] mm TALLER THAN . . . . . [ ][ ]
} COMPARISON VARIETY

6. GROWTH HABIT (Mature)

[2] 1 = ERECT (KENTUCKY 31) 2 = SEMI-ERECT (HIGHLIGHT) 3 = PROSTRATE

7. RHIZOMES

[ ][ ] mm LENGTH [ ][ ] mm WIDTH

[0] 0 = ABSENT 1 = WEAKLY CREEPING (DAWSON) 2 = STRONGLY CREEPING (BOREAL) 3 = OTHER _____

8. LEAF BLADE:

See Table 4

[5] COLOR: 1 = LIGHT GREEN (GOLFROOD) 2 = MODERATELY LIGHT GREEN (HIGHLIGHT) 3 = MEDIUM GREEN (JAMESTOWN, KENTUCKY 31)
4 = DARK GREEN (CASCADE) 5 = BLUEGREEN 6 = GRAYGREEN 7 = OTHER(SPECIFY) 11

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12. LEMMA:

	mm SHORTER THAN	
	LENGTH SAME AS	COMPARISON VARIETY
	mm LONGER THAN	

13. SEED:

630	mm LENGTH		mm WIDTH
40	mm SHORTER THAN	12	mm. NARROWER THAN
	LENGTH SAME AS		WIDTH SAME AS (COMPARISON VARIETY)
21	mm LONGER THAN	14	mm WIDER THAN

2323 GRAMS PER 1000 SEED

228	GRAMS LESS THAN	12
	WEIGHT SAME AS	(COMPARISON VARIETY)
489	GRAMS MORE THAN	14

14. DISEASE, INSECT, AND NEMATODE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

0	HELMINTHOSPORIUM VAGANS	0	H. SOROKINIANUM	2	H. DICTYOIDES
2	RHIZOCTONIA SOLANI	2	ERYSIPHE GRAMINIS -moderately	2	USTILAGO STRIIFORMIS
0	FUSARIUM NIVALE	0	F. ROSEUM	0	TYPHULA IOTANA
0	PUCCINIA GRAMINIS	0	P. STRIIFORMIS	0	P. POAE-NEMORALIS
2	P. CORONATA Table 3.	1	PYTHIUM ULTIMUM	2	CORTICIUM FUSCIFORME
2	SCLEROTINIA HOMEOCARPA	0	INSECT	0	NEMATODE
	OTHER		OTHER		OTHER

15. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate degree of resemblance (D.R.) by placing in the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety **2 = Same as**

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D. R.
RHIZOME LENGTH	Falcon, Rebel	2	GROWTH HABIT	Falcon, Rebel	2
LEAF WIDTH	Falcon, Rebel	2	LEAF COLOR	Falcon, Rebel	3
PANICLE COLOR			PANICLE SHAPE		
WINTER COLOR			COLD INJURY		
SHADE TOLERANCE			HEAT		
DROUGHT			DISEASE* Leaf Spot	Falcon, Rebel	3
			Brown patch	Falcon, Rebel	2

*Specify each disease evaluated.

8100168

16. ADDITIONAL DESCRIPTION: (Use additional sheets as required)

Describe all characteristics that cannot be adequately described in the form above. Comparative varieties should be used as may be appropriate, such as for disease. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests.